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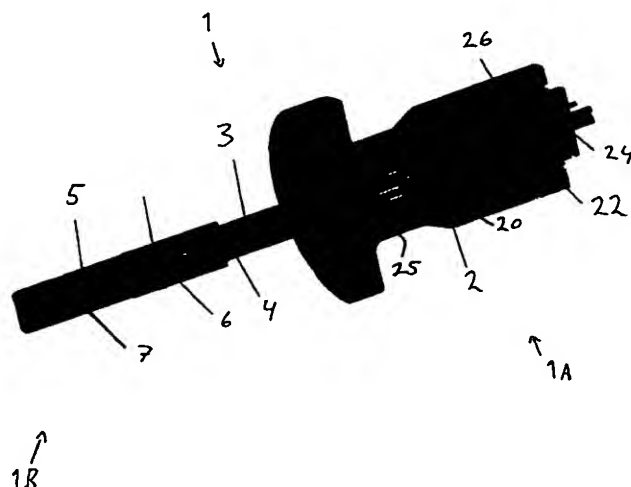
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(54) Title: FLOW MEASURING METHOD AND DEVICE



(57) Abstract: Flow measuring method and device for measuring the velocity of a single-phase or multi-phase flow, such as a multi-phase flow in a process pipe etc. The method comprises calculating the flow velocity  $U$  only by measuring consecutive values of pressure  $p$ , temperature  $T$  and momentum  $D$ , and then calculating the change in pressure  $\Delta p$ , change in temperature  $\Delta T$  and change in momentum  $\Delta D$ . The device comprises a probe (1) with a housing (2) comprising electronic components connected to different sensors in the probe (1). The probe comprises a long, hollow momentum tube (3), fastened by its first end (3A) to the housing (2) and a hollow, cylindrical sensor tube (4), located inside the momentum tube (3) fastened by its first end (4A) to the first end (3A) of the momentum tube (3). The sensor tube (4) comprises plate capacitors (CA1, CA2, CA3, CA4) located on the outside of the second end (B), thereby being able to measure the conductance between the momentum tube (3) and the plate capacitors (CA1, CA2, CA3, CA4) on the sensing tube (4). The probe comprises a pressure sensor and a temperature sensor.